TOOEOT*48S2200T

Fig. 1

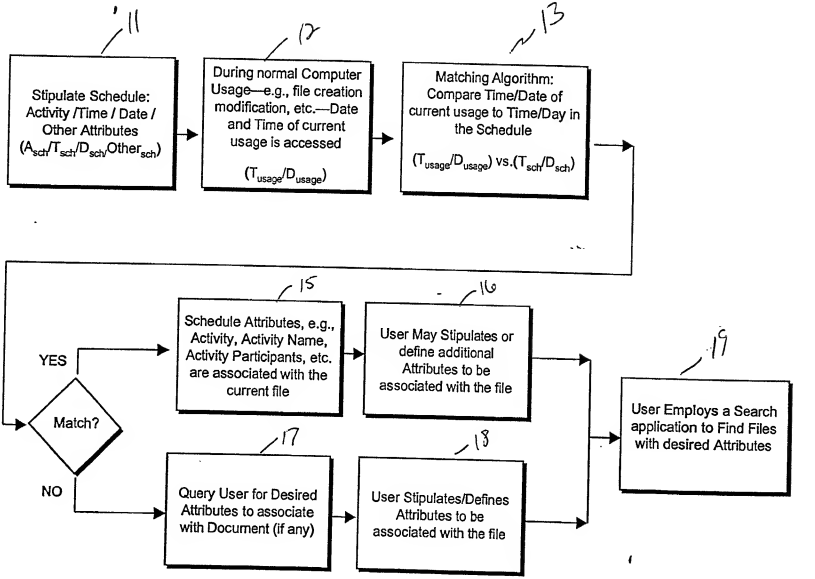

Fig. 2

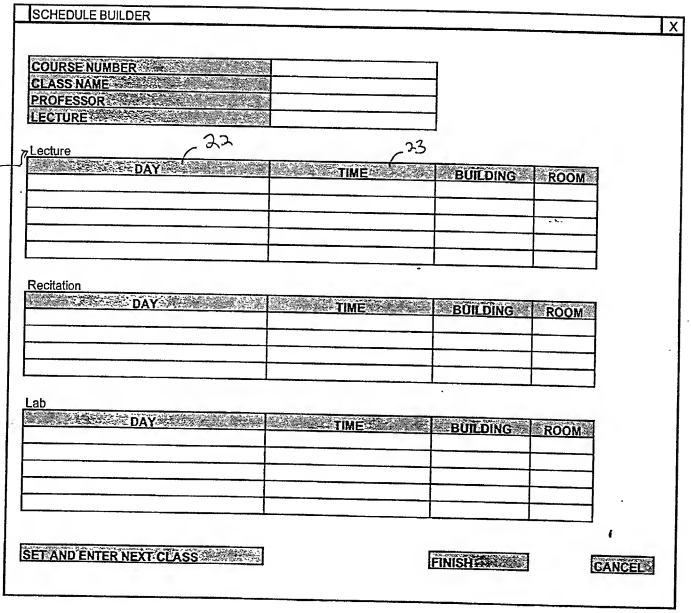
SCHEDULE BUILDER
X
COURSE NUMBER
CLASS NAME
PROFESSOR
LECTURE
Lecture
DAY
TIME
BUILDING
ROOM
22
23
25
Recitation
DAY
TIME
BUILDING
ROOM
Lab
DAY
TIME
BUILDING
ROOM
SET AND ENTER NEXT CLASS
FINISH
CANCEL

Fig. 3

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ACTIVITY A_{sch}	DAY(S) D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES				
		Start-Time: T_{sch1}	End-Time: T_{sch2}	PROFESSOR NAME	COURSE NUMBER	BUILDING NAME	ROOM NUMBER	ETC.
Physics	Monday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252	
	Wednesday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252	
	Friday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252	
Spanish	Tuesday	9:30	11:30	Dr. Mendez	22.021	Angelica Hall	131	
	Thursday	9:30	11:30	Dr. Mendez	22.021	Angelica Hall	131	
Etc.								

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Fig. 4

Schedule for Steven Rogers:

ACTIVITY	DATE	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
A_{sch}	D_{sch}	Start-Time: T_{sch1}	End-Time: T_{sch2}	MEETING CITY	MEETING BUILDING	PARTICIPANTS
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Westin Hotel	Steven Rogers, Jack Welsh
Project Sail Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	GE Building	Steven Rogers, John Devers, Diane Chang
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Royalton Hotel	Steven Rogers, Anne Miller

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Fig. 5

During normal computer use, as documents are created/transferred/accessed/modified, etc., the time and date of usage is referenced.

E.g., A new document is being saved:

Acquisition Meeting Notes

- Target Acquisition Price: $15.4 Billion
- Terms: Full Stock transaction
- Penalty: $100 Million payment for failure to consummate deal
- Etc.

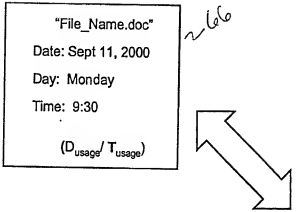
Relevant information about the current usage is accessed from the operating system / internal clock. This data retrieval could be triggered by opening a file, closing a file, saving a file, etc.

"File_Name.doc"
Date: Sept 11, 2000
Day: Monday
Time: 9:30

(D_{usage}/ T_{usage})

Fig. 6

The time/date information of the new document is then queried against the time/date data stipulated in the schedule with a matching algorithm:



Schedule

ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
		Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS	ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Jack Welsh	
Project Sell Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	John Devers	
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Anne Miller	

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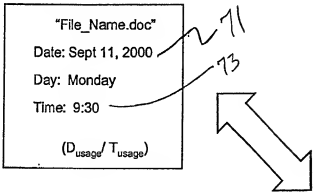
Fig. 7

If the query returns a positive match, attributes from the schedule will be automatically associated to the file and stored in a searchable database:



Schedule

ACTIVITY	DATE	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
A_{sch}	D_{sch}	Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS	ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Jack Welsh	

Matched: YES

Attributes from the schedule will be automatically associated to the file and stored

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Fig. 8

Attribute are associated with files, for example in an "Attribute Database"

Attribute Database

New attributes associated with the file:

FILE NAME	DATE CREATED	TIME CREATED	ACTIVITY NAME	LOCATION	PARTICIPANTS	ETC.
File_Name.doc	Monday, Sept 11, 2000	9:30	Heinz Acquisition M	Pittsburgh	Jack Welsh	

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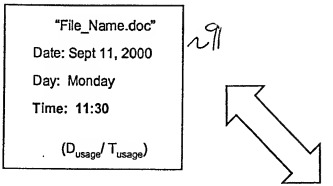
Fig. 9

If the query returns a negative match, the user is prompted for any attributes he/she would like to associate with the file:



Schedule 92

ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
		Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS	ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Jack Welsh	
Project Sell Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	John Devers	
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Anne Miller	

Matched: NO

"Would you like to associate any attributes to "File_Name.doc?" 93

NO: [no action]

Yes: "Please define attribute field and name", e.g. 94

Field: "Subject" Name: "Discussion Follow-up"

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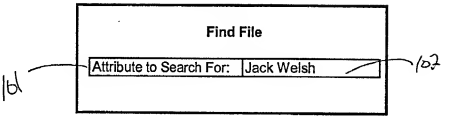
Fig. 10

Files are then searchable by attributes, as well as time/date information:



Search: Attribute Database

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FILE NAME	DATE CREATED	TIME CREATED	ACTIVITY NAME	LOCATION	PARTICIPANTS	ETC.
New Document	Monday, Sept 11, 2000	9:30	Heinz Acquisition Meeting	Pittsburgh	Jack Welsh	

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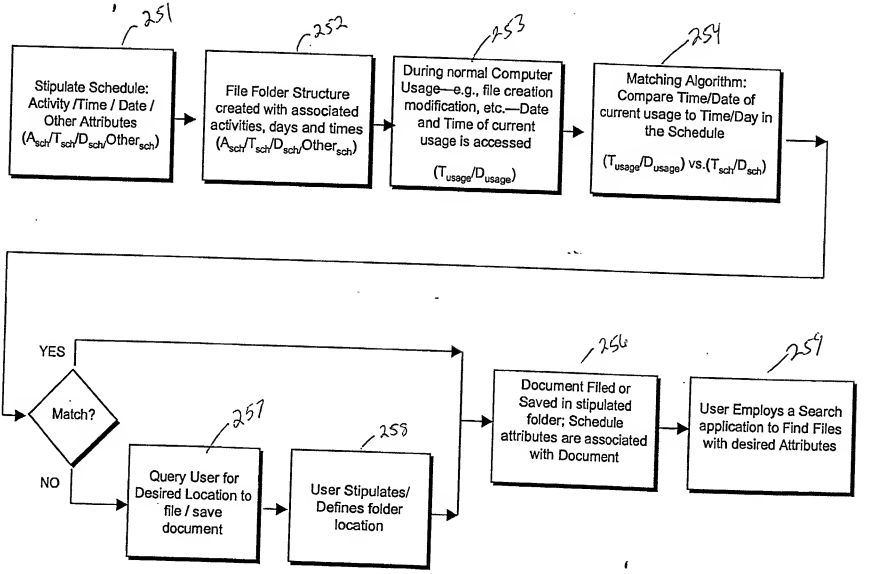

10050258v1 "10050258v1

Fig. 12

Generated Folder Structure

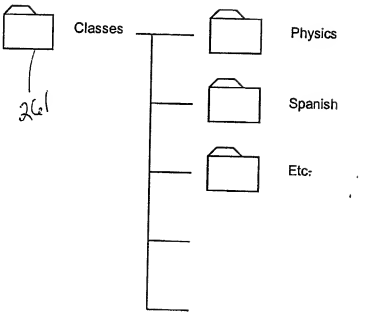

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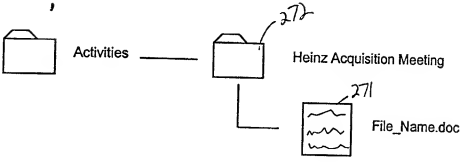
Fig. 13



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New attributes associated with the file:

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FILE NAME	DATE CREATED	TIME CREATED	ACTIVITY NAME	LOCATION	PARTICIPANTS	ETC.
File_Name.doc	Monday, Sept 11, 2000	9:30	Heinz Acquisition M	Pittsburgh	Jack Welsh	

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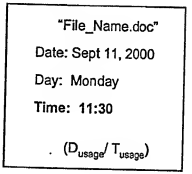
Fig. 14

If the query returns a negative match, the user is prompted for any attributes he/she would like to associate with the file:



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Matching Algorithm to compare:

(D_{usage}/ T_{usage}) and (D_{sch}/ T_{sch})

Schedule

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ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
		Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS	ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Jack Welsh	
Project Sell Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	John Devers	
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Anne Miller	

Matched: NO

"Where would you like to file/save "File_Name.doc?"

Cancel: [no action]

<User>: Save "File_Name.doc" in the "Miscellaneous Notes" folder, under the "Activities folder"

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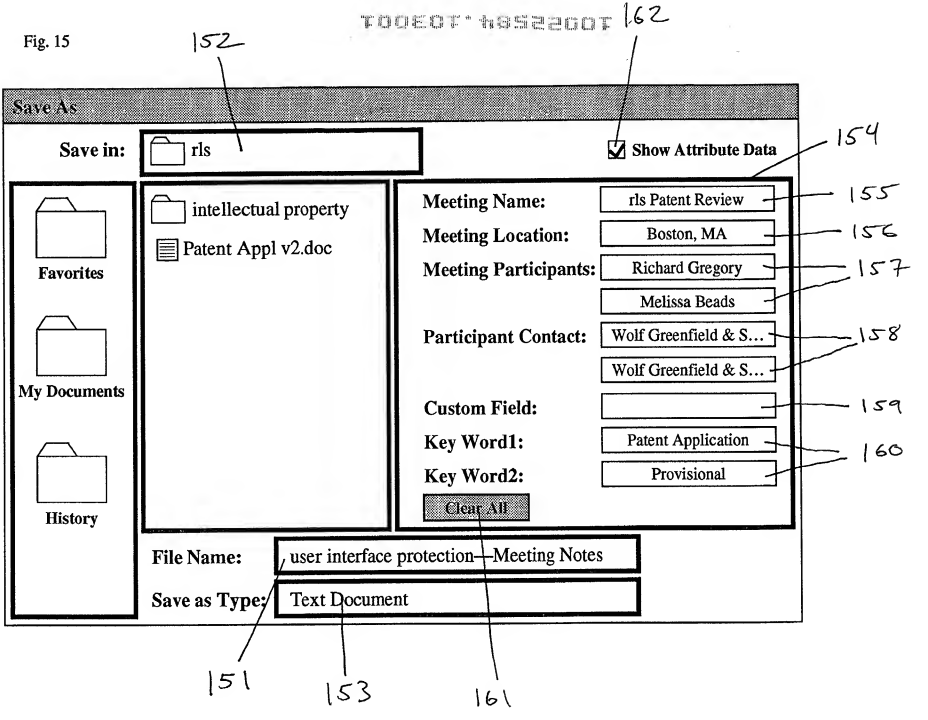
Fig. 15


152
162
Save As
Save in:
rls
Show Attribute Data
154
Favorites
My Documents
History
intellectual property
Patent Appl v2.doc
Meeting Name:
rls Patent Review
155
Meeting Location:
Boston, MA
156
Meeting Participants:
Richard Gregory
Melissa Beads
157
Participant Contact:
Wolf Greenfield & S...
Wolf Greenfield & S...
158
Custom Field:
159
Key Word1:
Patent Application
Key Word2:
Provisional
160
Clear All
File Name:
user interface protection—Meeting Notes
Save as Type:
Text Document
151
153
161

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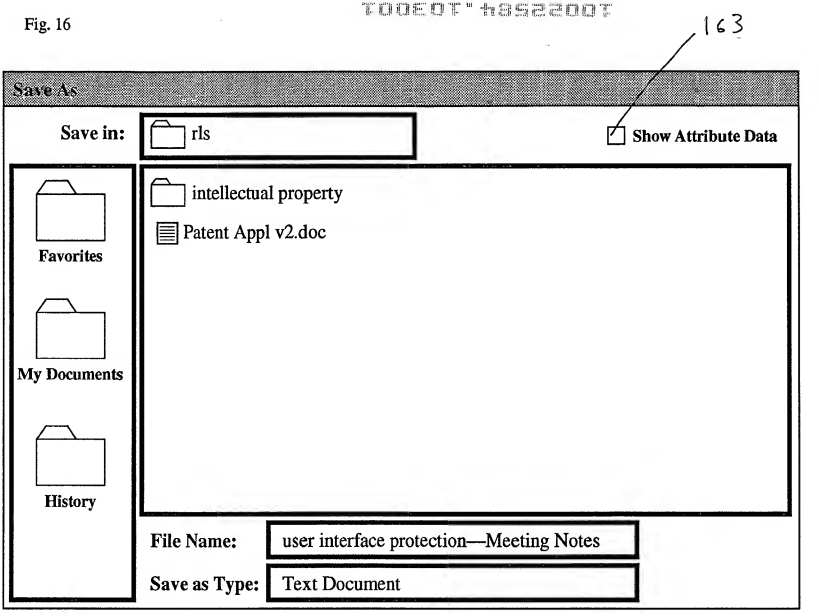
Fig. 16